

METHOD AND SYSTEM OF MEASURING CHARACTERISTICS OF AN ORGAN**Publication number:** JP2003503136T**Publication date:** 2003-01-28**Inventor:****Applicant:****Classification:**

- **international:** A61B5/055; G06T5/00; G06T7/60; A61B5/107;
A61B5/055; G06T5/00; G06T7/60; A61B5/107; (IPC1-
7): A61B5/055; A61B6/00; A61B6/03; A61B8/00;
G01R33/54; G06T1/00; G06T3/00

- **european:** A61B5/055; G06T5/00E; G06T7/60

Application number: JP20010507365T 20000426**Priority number(s):** NZ19990335321 19990421; WO2000NZ00063
20000426**Also published as:**WO0101859 (A1)
EP1171033 (A1)
EP1171033 (A0)**Report a data error here**

Abstract not available for JP2003503136T

Data supplied from the **esp@cenet** database - Worldwide

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 January 2001 (11.01.2001)

PCT

(10) International Publication Number
WO 01/01859 A1

(51) International Patent Classification⁷: A61B 5/107, 5/103, G06T 17/00, G01F 17/00

(21) International Application Number: PCT/NZ00/00063

(22) International Filing Date: 26 April 2000 (26.04.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
335321 21 April 1999 (21.04.1999) NZ

(71) Applicant (for all designated States except US): AUCKLAND UNISERVICES LIMITED [NZ/NZ]; 58 Symonds Street, Auckland (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): COWAN, Brett [NZ/NZ]; Department of Medicine, Auckland Hospital, University of Auckland, Park Road, Auckland (NZ). YOUNG, Alistair [NZ/NZ]; Department of Anatomy with Radiology, University of Auckland, Park Road, Auckland (NZ).

(74) Agents: WEST-WALKER, Gregory, James et al.; A J Park, Huddart Parker Building, 1 Post Office Square, P.O. Box 949, Wellington (NZ).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

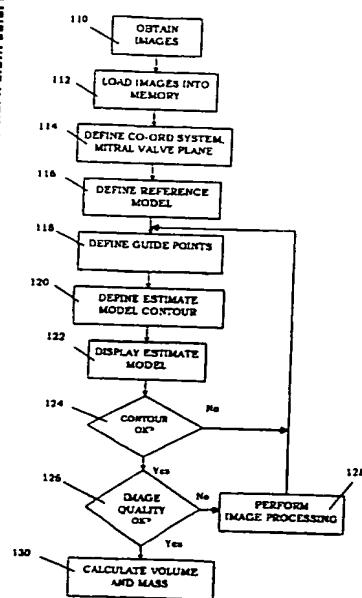
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND SYSTEM OF MEASURING CHARACTERISTICS OF AN ORGAN



(57) Abstract: The invention provides a method of measuring characteristics of an organ or part thereof from multiple images of the organ or part thereof, the method comprising the steps of defining the spatial position of at least two of the images; defining a reference model of the organ or part thereof scaled according to the distance between reference markers on the images; defining one or more boundary guide points associated with one or more images for which the spatial positions have been defined; converting the guide points to three-dimensional coordinates; defining an estimate model by fitting the reference model to the guide points; and calculating the characteristics from the estimate model. The invention also provides a system and a computer program for measuring characteristics of an organ or part thereof of a subject from multiple images of the subject's organ or part thereof.

WO 01/01859 A1